

CLAIMS

1. A rubber laminate comprising a rubber composition (A), obtained by blending 0 to 120 parts by weight of zinc methacrylate and an organic peroxide into a total of 100 parts by weight of rubber ingredients including at least 40 parts by weight of an ethylenic unsaturated nitrile conjugated diene-based high saturation rubber with a content of conjugated diene units of not more than 30 wt%, and a sulfur vulcanizable diene-based rubber composition (B) bonded by vulcanization through a bonding rubber composition (C), wherein the bonding rubber composition (C) is comprised of 100 parts by weight of a rubber containing 50 to 85 parts by weight of at least one type of diene-based rubber selected from natural rubber, polyisoprene rubber, polybutadiene rubber, and a conjugated diene-aromatic vinyl copolymer and 15 to 50 parts by weight of an ethylenic unsaturated nitrile-conjugated diene-based high saturation rubber with a content of conjugated diene units of not more than 30 wt% plus 10 to 60 parts by weight of zinc methacrylate, 0.3 to 10 parts by weight of an organic peroxide, and 5 to 50 parts by weight of a co-cross-linking agent having one of an acryl group, methacryl group, and allyl group and liquid at room temperature.

2. A rubber laminate as set forth in claim 1, wherein said co-cross-linking agent is an aromatic ester having an allyl group.

3. A rubber laminate as set forth in claim 1, wherein in said bonding rubber composition (C), first the ethylenic unsaturated nitrile-conjugated diene-based high saturation rubber with a content of conjugated diene units of not more than 30 wt% is mixed with the zinc methacrylate and then this composition is mixed with the diene-based rubber and other compounding agents.

4. A rubber laminate as set forth in claim 1, wherein the bonding rubber composition (C) includes 5 to

50 parts by weight of an aromatic petroleum resin having an average molecular weight of 300 to 1500, a softening point of 50 to 160°C, and an iodine absorption of at least 20 g/100 g.

5. A pneumatic tire using a rubber laminated structure set forth in claim 1.

6. A safety tire using a rubber composition set forth in claim 1 for a crescent-shaped reinforcing rubber layer of a side part and arranging around the bonding rubber composition (C) as set forth in claim 1 an average thickness of 0.2 to 1.5 mm.

7. A safety tire having a run-flat performance using rubber composition (A) set forth in claim 1, a crescent-shaped reinforcing rubber layer of a side part and an inner liner and arranging a bonding rubber composition (C) as set forth in claim 1 of an average thickness of 0.2 to 1.5 mm between them and a core.

50 parts by weight of an aromatic petroleum resin having an average molecular weight of 300 to 1500, a softening point of 50 to 160°C, and an iodine absorption of at least 20 g/100 g.

5. A pneumatic tire using a rubber laminated structure set forth in claim 1.

6. A safety tire using a rubber composition set forth in claim 1 for a crescent-shaped reinforcing rubber layer of a side part and arranging around the bonding rubber composition (C) as set forth in claim 1 an average thickness of 0.2 to 1.5 mm.

7. A safety tire having a run-flat performance using rubber composition (A) set forth in claim 1, a crescent-shaped reinforcing rubber layer of a side part and an inner liner and arranging a bonding rubber composition (C) as set forth in claim 1 of an average thickness of 0.2 to 1.5 mm between them and a core.

50 parts by weight of an aromatic petroleum resin having an average molecular weight of 300 to 1500, a softening point of 50 to 160°C, and an iodine absorption of at least 20 g/100 g.

5. A pneumatic tire using a rubber laminated structure set forth in claim 1.

6. A safety tire using a rubber composition set forth in claim 1 for a crescent-shaped reinforcing rubber layer of a side part and arranging around the bonding rubber composition (C) as set forth in claim 1 an average thickness of 0.2 to 1.5 mm.

7. A safety tire having a run-flat performance using rubber composition (A) set forth in claim 1, a crescent-shaped reinforcing rubber layer of a side part and an inner liner and arranging a bonding rubber composition (C) as set forth in claim 1 of an average thickness of 0.2 to 1.5 mm between them and a core.

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5. A pneumatic tire using a rubber laminated structure set forth in claim 1.

6. A safety tire using a rubber composition set forth in claim 1 for a crescent-shaped reinforcing rubber layer of a side part and arranging around the bonding rubber composition (C) as set forth in claim 1 an average thickness of 0.2 to 1.5 mm.

7. A safety tire having a run-flat performance using rubber composition (A) set forth in claim 1, a crescent-shaped reinforcing rubber layer of a side part and an inner liner and arranging a bonding rubber composition (C) as set forth in claim 1 of an average thickness of 0.2 to 1.5 mm between them and a core.